

# RS-2006

## Bluetooth® Ring Barcode Scanner

### Highlights

- One of the smallest and lightest ring barcode scanners available
- Advanced ergonomic design allows for all day comfort and scanning efficiency regardless of hand size or hand preference
- Simple Bluetooth pairing and hands-free scanning improves mobile worker's productivity
- Adjustable finger strap allows for an easy and quick conversion for either right or left hand operation
- High speed 100 scans/second laser barcode scanner
- Barcode scanner is triggered via external thumb button
- Leverage the free Software Development Kit (SDK) to customize scanning behavior
- Made of durable, high impact-resistant polycarbonate plastic, survives 5 foot drops to concrete
- Sold as a kit which includes the OPN-2006 Bluetooth laser barcode scanner, finger strap, USB cable and neck lanyard
- Backed by a two year warranty



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## Product Specifications

### OPERATION

**CPU:** 32-bit

**OS:** Proprietary

**SOFTWARE:** 4 applications available (also program-mable in C-language. Free software development kit with free RX compiler)

**RTC:** Supports year, month, day, hour, minute, second (leap year supported)

### MEMORY

**FLASHROM:** 512 kB

**RAM:** 96 kB

**EXTERNAL FLASHROM:** 1 MB

### OPERATING INDICATORS

**VISUAL:** Multi color LED (red/green/orange/blue)

**AUDIBLE:** Buzzer

### OPERATING KEYS

**ENTRY OPTIONS:** 2 keys total, 1 function key, 1 scan key

**STRAP:** 1 scan trigger

### COMMUNICATION

**USB:** Mini USB, Version 1.1, USB-VCP (USB-HID and USB-MSD on request)

**BLUETOOTH:** Version 4.0, SPP, HID, 1 to 1 connection, master and slave mode, authentication and encryption

### POWER

**RECHARGEABLE BATTERY:** Lithium-Ion Polymer 3.7V 240mAh

#### OPERATING TIME:

Batch: 4500 scans (1 scan / 5 sec)

Batch, idle: 2 months

Bluetooth: 3500 scans (1 scan / 5 sec)

Bluetooth, idle: 27 hours

**DATA RETENTION TIME:** Indefinite

**CHARGING METHOD:** Enclosed USB cable

### BARCODE SCANNER OPTICS

**ENGINE:** Opticon

**LIGHT SOURCE:** 650 nm visible laser diode

**SCAN METHOD:** Vibrating mirror

**SCAN RATE:** 100 scans/sec

**READING PITCH ANGLE:** -25 to 0°, 0 to +25°

**READING SKEW ANGLE:** -40 to -8°, +8 to +40°

**READING TILT ANGLE:** -20 to 0°, 0 to +20°

**CURVATURE:** R>15 mm (EAN8), R>20 mm (EAN13)

**MINIMUM PCS VALUE:** 0.45

#### DEPTH OF FIELD AT PCS 0.9 UPC:

39 mil (1.0 mm) 2.76 - 21.65 in (70 - 550 mm)

20 mil (0.5 mm) 1.97 - 14.96 in (50 - 380 mm)

10 mil (0.25 mm) 1.97 - 9.06 in (50 - 230 mm)

6 mil (0.15 mm) 1.97 - 5.12 in (50 - 130 mm)

5 mil (0.127 mm) 2.36 - 4.33 in (60 - 110 mm)

### SUPPORTED SYMBOLOGIES

**BARCODE (1D):** JAN/UPC/EAN incl. add on, Codabar/ NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5, MSI/Plessey-UK/Plessey, S-Code, Telepen, Tri-Optic

**BARCODE (2D):** GS1 stacked

**BARCODE (POSTAL CODES):** Chinese Post, Korean Postal Authority code

### DURABILITY

#### TEMPERATURE:

Operation: 32 to 104 °F (0 to 40 °C)

Storage: -4 to 140 °F (-20 to 60 °C)

#### HUMIDITY:

Operation: 20 - 85% (non-condensing)

Storage: 20 - 85% (non-condensing)

#### AMBIENT LIGHT IMMUNITY:

White: 4,000 lx max

Fluorescent: 4,000 lx max

Direct sun: 80,000 lx max

**DROP TEST:** 5 ft (1.5 m) drop onto concrete surface

**VIBRATION TEST:** 10 - 100 Hz with 2G for 30 minimum

**PROTECTION RATE:** IP 42

### PHYSICAL

**DIMENSIONS (WXHXD):** 2.13 x 1.77 x 2.44 in (54 x 45 x 62 mm)

**WEIGHT:** Ca. 1.42 oz (42 g) (incl. battery and strap)

**CASE:** ABS, Black

### REGULATORY AND SAFETY

**PRODUCT COMPLIANCE:** CE, FCC, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

### ENCLOSED ITEMS

USB cable, neck strap

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